CLAIMS

- 1 1. A mouthguard for use by athletes in competition and the like,
- 2 comprising:
- a first portion having a teeth engaging shape made from a
- 4 material having a freezing point of less than 130°F, said first portion
- 5 being formed into a tray having a generally U-shape, said first portion
- 6 having a tab extending out from the tray, said tray having a plurality of
- 7 holes therein:
- 8 a second portion formed on said first portion such that part of
- 9 said second portion extends through said plurality of holes in said first
- 10 portion to lock the two portions together, said second portion being
- 11 formed from a gel material having sufficient softness to protect the
- 12 user from damage during use in said athletic competition.
 - 1 2. The mouthguard of claim 1, wherein said first portion is formed
 - 2 from a thermoplastic material.
 - 1 3. The mouthguard of claim 2, wherein said thermoplastic material
 - 2 is an ethylene vinyl acetate copolymer.
 - 1 4. The mouthguard of claim 3, wherein said ethylene vinyl acetate
 - 2 copolymer has a freezing temperature of about 98.6 °F.

- 1 5. The mouthguard of claim 4, wherein said second portion is
- 2 formed from a gel selected from the group consisting of styrene block
- 3 copolymers and thermoplastic polyurethanes.
- 1 6. The mouthguard of claim 4, wherein said gel is a styrene block
- 2 copolymer.
- 1 7. A mouthguard for use by athletes in competition and the like,
- 2 comprising:
- 3 first portion means for engaging teeth and made from a material
- 4 having a freezing point of less than 130°F, said first portion means
- 5 being formed into a tray having a generally U-shape, said first portion
- 6 means having a tab extending out from the tray, said tray having a
- 7 plurality of holes therein;
- 8 second portion means for providing a cushion and formed on
- 9 said first portion means such that part of said second portion means
- 10 extends through said plurality of holes in said first portion means to
- 11 lock the two portion means s together, said second portion means
- 12 being formed from a gel material having sufficient softness to protect
- 13 the user from damage during use in said athletic competition.
 - 1 8. The mouthguard of claim 7, wherein said first portion means is
 - 2 formed from a thermoplastic material.
 - 1 9. The mouthguard of claim 8, wherein said thermoplastic material
 - 2 is an ethylene vinyl acetate copolymer.

- 1 10. The mouthguard of claim 9, wherein said ethylene vinyl acetate
- 2 copolymer has a freezing temperature of about 98.6 °F.
- 1 11. The mouthguard of claim 10, wherein said second portion
- 2 means is formed from a gel selected from the group consisting of
- 3 styrene block copolymers and thermoplastic polyurethanes.
- 1 12. The mouthguard of claim 11, wherein said gel is a styrene block
- 2 copolymer.
- 1 13. A mouthguard for use by athletes in competition and the like,
- 2 comprising:
- a first portion formed from a ethylene vinyl acetate copolymer
- 4 material and having a teeth engaging shape and having a freezing point
- 5 of less than 130°F, said first portion being formed into a tray having a
- 6 generally U-shape, said first portion having a tab extending out from
- 7 the tray, said tray having a plurality of holes therein;
- 8 a second portion formed from a block styrene copolymer and
- 9 mounted on said first portion such that part of said second portion
- 10 extends through said plurality of holes in said first portion to lock the
- 11 two portions together, said second portion being formed from a gel
- 12 material having sufficient softness to protect the user from damage
- 13 during use in said athletic competition.

- 1 14. The mouthguard of claim 13, wherein said ethylene vinyl acetate
- 2 copolymer has a freezing temperature of about 98.6 °F.